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10/505,305	10/27/2004	Lionel Breton	112701-434	6006
29157 BELL, BOYD o	7590 07/24/200 & LLOYD LLP	EXAMINER		
P.O. Box 1135		MARX, IRENE		
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			1651	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/505,305	BRETON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Irene Marx	1651	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 20 № 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under the condition of the co	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-30 is/are pending in the application 4a) Of the above claim(s) 11-24 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 and 25-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration. or election requirement. er.		
10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. See ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/20/08 has been entered.

Claims 1-10 and 25-30 are being examined to the extent that they are directed to a bacterial culture only.

Claims 11-24 are withdrawn from consideration.

The rejection under 35 U.S.C 112, first paragraph regarding deposit is withdrawn in view of applicant's averments..

Claim Rejections - 35 USC § 103

Claims 1-10 and 25-30 are/remain rejected under 35 U.S.C. 103(a) as being unpatentable over Cavaliere Vesely *et al.* (EP 1020123) taken with Shields, Jr. *et al.* (U.S. Patent 6,156,355), Runge *et al.* (U.S. Patent No. 7,037,708), Berggren *et al.* (WO/00/79072) and Brassart *et al.* U.S. Patent No. 5,603,930) and further taken with Reddy (U.S. Patent No. 4,806,368).

The claims are directed to an orally administrable comprising a photoprotecting effective amount of at least one probiotic lactic acid bacterium and at least one carotenoid in some amount included in an ingestible carrier and including yeast extract.

As discussed in previous Office actions, the cited references disclose an orally administrable composition including a food or drink composition comprising a photoprotecting effective amount of at least one probiotic lactic acid bacterium and at least one carotenoid, included in an ingestible carrier.

The references differ from the claimed invention in that the specific strains of claim 4 are not disclosed and in the provision of milk products, milk based fermented products such as yogurt.. However, Brassart *et al.* adequately demonstrates that at least strains CNCM I-1225 and CNCM I-1226 are old and well known in the art as probiotics. In addition the reference demonstrates that the composition is provided as a yogurt a milk-based fermented product. See, e.g., col. 3, lines 55-60.

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With regard to the pharmaceutical carrier, it is noted that the product of Berggren is provided at least in tablet form. In addition, yogurt containing strain CNCM I-1225 comprises a pharmaceutical carrier.

Regarding the presence of yeast extract, it is noted that Reddy adequately demonstrates that *Lactobacillus* and *Bifidobacterium* compositions containing yeast extract are old and well known in the art. See, e.g., Col. 3, Table. The reference discloses the benefits of the yeast extracts components to the viability of the bacteria, for example as a source of B vitamins.

The concentrations discussed in the references appear to be substantially the same as claimed. However, even if they are not, the adjustment of concentrations for optimization purposes identified as result-effective variables cited in the references would have been prima facie obvious to a person having ordinary skill in the art, since such adjustment is at the essence of biotechnical engineering.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the claimed invention was made to modify the products of Cavaliere Vesely *et al.*, Shields, Jr. *et al.*, Runge *et al.* and Berggren *et al.* by providing a composition comprising a photoprotective amount of probiotic strains CNCM I-1225 and CNCM I-1226 as suggested by the teachings of Brassart *et al.* for the expected benefit of providing a healthful composition comprising a probiotic strain known to have favorable effects against disease and carotenoids such as β -carotene know to have at least antioxidants effects.

Thus, the claimed invention as a whole was clearly *prima facie* obvious, especially in the absence of evidence to the contrary.

Response to Arguments

Applicant's arguments and Bureau-Franz Declaration have been fully considered but they are not deemed to be persuasive.

The declarant states at 4. that the invention is directed, in part, to an oral composition that includes an admixture of very specific constituents and alleges synergistic effects therefor.

However, claim 1 is directed to

"An orally administrable composition for the photoprotection of the skin comprising a photoprotecting effective amount of at least one probiotic lactic acid bacterium, and at least one carotenoid wherein the at least one carotenoid is present in the composition in an amount from

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 $10^{-12}\%$ to 20% by weight, included in an orally acceptable carrier, the composition further comprising a yeast extract".

There is nothing specific about the constituents of this composition considering that the invention as claimed in the independent claim is directed to any probiotic lactic acid bacterium and is directed to various species thereof in claim 3. Only in claim 4 are specific strains claim designated, of which at least two strains are known in the art as shown by Brassart. In addition, the declarant fails to consider that the claim designated invention encompasses unidentified carotenoids at a level of between 10⁻¹²% to 20% by weight. The nature of the carotenoids and the amount of 10⁻¹²% is not addressed in the declaration and cannot be considered to be "specific". Moreover the compositions comprises an unidentified of extract of unidentified yeasts.

The declaration shows favorable results for a composition comprising "matrix + La1 10^8 live + UV and this is designated "composition according to the invention". In section 8. it is stated that

"Depending on the group being tested, the mice were fed a variety of formulas of food including a food with no additional supplements; a food with maltodextrin; a "matrix" food having beta-carotene, lycopene, inactivated yeast extract and excipients such as, for example, magnesium stearate, corn starch, and silicon dioxide; a food with carotenoids; and the "matrix" food that was also supplemented with a bacteria (Lal). The formulas for the treatments are set forth in Table 1 of Exhibit B."

There is no clear nexus or correlation between the invention as claimed and the results provided. There is no clear nexus or correlation between the 10⁸ live La1 of the declaration and the invention as claimed directed to any probiotic lactic acid bacterium, the various species of claim 3 and even the specific strains of claim 4, which do not appear to include any amount of live "La1", which is not identified with any specificity. In addition, the declaration does not specify the level of carotenoids between 10⁻¹²% to 20% by weight in the composition or the amount of yeast extract. It is also noted that claim 5 specifically recites "semi-active" or deactivated" lactic acid bacteria as opposed to "live" as in the declaration.

The Declaration does not clearly distinguish over the art and is not probative of unexpected results since it is not commensurate in scope with the claims. The scope of the showing must be commensurate with the scope of claims to consider evidence probative of

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unexpected results, for example. In re Dill, 202 USPQ 805 (CCPA, 1979), In re Lindner 173 USPQ 356 (CCPA 1972), In re Hyson, 172 USPQ 399 (CCPA 1972), In re Boesch, 205 USPQ 215, (CCPA 1980), In re Grasselli, 218 USPQ 769 (Fed. Cir. 1983), In re Clemens, 206 USPQ 289 (CCPA 1980). It should be clear that the probative value of the data is not commensurate in scope with the degree of protection sought by the claim.

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In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 19880; In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the Cavaliere Vesely et al., Shields, Jr. et al., Runge et al., Berggren et al. are all directed to compositions comprising lactic acid probiotics and carotenoid or carotenoid derivatives even though references do not teach that the composition can be used for photoprotection of the skin. However, the intended use of the composition does not distinguish the composition since such undisclosed use is inherent in the cited compositions. In order to be limiting, the intended use must create a structural difference between the claimed composition and the prior art compositions. In the instant case, the intended use does not create a structural difference, thus, the intended use is not limiting. "The claiming of a new use . . . which is inherently present in the prior art does not necessarily make the claim patentable." In re Best, 195 USPQ 430, 433 (CCPA 1977). When applicant claims a "composition in terms of function . . . and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the Examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection" (MPEP 2112). In this regard, it is noteworthy that the claims are directed to a composition comprising "10⁻¹²% to 20% by weight of an unidentified carotenoid. There is nothing on the record to indicate to what extent a composition comprising carotenoids at the lower end of the range recited will have the required effect.

As noted previously the addition of yeast extract to probiotic lactic acid compositions is well known in the art for its viability enhancement.

Therefore the rejection is deemed proper and it is adhered to.

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No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Irene Marx/ Primary Examiner Art Unit 1651